

APPLICANTS: MARTIN GONZALEZ, et al.
SERIAL NO.: To Be Assigned
FILED: Herewith
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Amendments to the Specification:

On page 1, delete line 2 ("OBJECT OF THE INVENTION") through line 20 ("... and other machines.")

On page 1, immediately after the title, please insert:

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PRIOR APPLICATION DATA

The present application is a national phase application of International Application PCI/ES2003/000555, entitled "IMPROVED RESISTANCE WELDING DEVICE" filed on October 29, 2003, which in turn claims priority from Spanish application P200202521, filed on November 4, 2002 each of which are incorporated by reference in their entirety.

FIELD OF THE INVENTION

The present invention is directed to devices and method for welding by resistance for welding, for example, small metallic parts and similar objects.--

On page 3, line 1, please insert:

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SUMMARY OF THE INVENTION

The object of the present invention is an improved device for welding by resistance that comprises significant innovations and advantages compared to the present fixtures and devices for resistance welding of small metallic parts and similar objects.

More specifically the new invention refers to a fixture that has an electrode for the welding of small parts and similar objects in transfer machines or rotating presses amongst other applications. The device is made up of a movable electrode in a support assisted by a gas cylinder, spring or compression element, allowing the time lapse of the weld to be sufficiently long so that it is effective, without altering the movement cycle of the press in which it is installed. This device is held in place by a fast acting clamp and works in coordination with a conventional electrode arranged in the lower die or matrix. The device can also be used in multi-use clamps of robots and other machines.

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BRIEF DESCRIPTION OF THE DRAWINGS

- Figure 1. Shows a partially sectioned elevation view of the device.
Figure 2. Shows an elevation view of the electrode support column.
Figure 3. Shows a semi-sectioned elevation view of the column that supports the intermediary coupling part.
Figure 4. Shows a lower view of the intermediary coupling part.
Figure 5. Shows a sectioned elevation view of the intermediary coupling part.
Figure 6. Shows a transversally sectioned elevation view of the intermediary coupling part.
Figure 7. Shows a plan view of the electrode body.
Figure 8. Shows a sectioned elevation view of the electrode body.
Figure 9. Shows a sectioned elevation view of the positioning device.
Figure 10. Shows a transversal sectioned view of the positioning device.
Figure 11. Shows an elevation view of the electrode rod.
Figure 12. Shows a sectioned elevation view of the electrode rod, showing the channels for the passage of air.
Figure 13. Shows a transversal sectioned view of the electrode rod, showing the channels for the passage of air.
Figure 14. Shows a semi-sectioned view of a detail of welding with the part to be welded pressed by the rod against the sheet to be welded and in a slightly forward position.--

Delete page 7, line 11 ("BRIEF DESCRIPTION OF THE DRAWINGS ...") through page 8, line 13 ("... DESCRIPTION OF A PREFERRED EMBODIMENT")

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